



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/560,435

12/14/2005

Yoshinobu Honkura

F05-422-US

8783

21254 7590 06/11/2009  
MCGINN INTELLECTUAL PROPERTY LAW GROUP, PLLC  
8321 OLD COURTHOUSE ROAD  
SUITE 200  
VIENNA, VA 22182-3817

EXAMINER

ROJAS, BERNARD

ART UNIT

PAPER NUMBER

2832

MAIL DATE

DELIVERY MODE

06/11/2009

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

**Supplemental  
Notice of Allowability**

Application No.

10/560,435

Examiner

BERNARD ROJAS

Applicant(s)

HONKURA ET AL.

Art Unit

2832

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 08/05/2008.
2. ☒ The allowed claim(s) is/are 18-24 and 26-30.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- \* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date See Continuation Sheet
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_.

/Bernard Rojas/  
Examiner, Art Unit 2832

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 12142005 03102006 04132006 09122007 08062008. .

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Phillip E. Miller on 4/13/2009.

The application has been amended as follows:

Replace Claim 19 with:

Claim 19. The alignment process apparatus according to claim 18, characterized in that a thickness of the magnetic flux induction member is 1.0 to 3.5mm.

Replace Claim 20 with:

Claim 20. The alignment process apparatus according to claim 18, characterized in that a thickness of the magnetic flux induction member is comprised of super-hard material.

Replace Claim 21 with:

Claim 21. The alignment process apparatus according to claim 19, characterized in that a thickness of the magnetic flux induction member is comprised of super-hard material.

Replace Claim 22 with:

Claim 22. The alignment process apparatus according to claim 18, characterized in that an aligning magnetic field of a region of the cavity in which the No. 2 dice are present induces magnetic flux greater than 0.5T.

Replace Claim 23 with:

Claim 23. The alignment process apparatus according to claim 19, characterized in that an aligning magnetic field of a region of the cavity in which the No. 2 dice are present induces magnetic flux greater than 0.5T.

Replace Claim 24 with:

Claim 24. The alignment process apparatus according to claim 20, characterized in that an aligning magnetic field of a region of the cavity in which the No. 2 dice are present induces magnetic flux greater than 0.5T.

Replace Claim 26 with:

Claim 26. The alignment process apparatus according to claim 18, further comprising a ring comprising cylindrical thin-wall magnetic super-hard material which forms an inner surface of the cavity, disposed on the outer periphery of the core.

Replace Claim 27 with:

Art Unit: 2832

Claim 27. The alignment process apparatus according to claim 19, further comprising a ring comprising cylindrical thin-wall magnetic super-hard material which forms an inner surface of the cavity, disposed on the outer periphery of the core.

Replace Claim 28 with:

Claim 28. The alignment process apparatus according to claim 20, further comprising a ring comprising cylindrical thin-wall magnetic super-hard material which forms an inner surface of the cavity, disposed on the outer periphery of the core.

Replace Claim 29 with:

Claim 29. The alignment process apparatus according to claim 21, further comprising a ring comprising cylindrical thin-wall magnetic super-hard material which forms an inner surface of the cavity, disposed on the outer periphery of the core.

Replace Claim 30 with:

Claim 30. The alignment process apparatus according to claim 22, further comprising a ring comprising cylindrical thin-wall magnetic super-hard material which forms an inner surface of the cavity, disposed on the outer periphery of the core.

### ***Election/Restrictions***

Applicant's election without traverse of Group II, claims 18-33 in the reply filed on 08/05/2008 is acknowledged.

Art Unit: 2832

This application is in condition for allowance except for the presence of claims 10-17 directed to Group I non-elected without traverse. Accordingly, claims 10-17 have been cancelled.

***Allowable Subject Matter***

Claims 18-33 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art of record does not teach nor suggest, in the claimed combination, an alignment process apparatus for manufacturing, by molding using a die, a hollow cylindrical-shaped anisotropic bonded magnet for use in a 4-pole motor wherein the apparatus has two different dice structures wherein magnetic coils are used to impart the magnetic field to the magnet mold wherein No. 1 one dice, comprising of a magnetic body divided into quarters forming an aligning magnetic field in the normalized direction of the cavity, disposed on the outer periphery of the core and facing the center of the core; No.2 two dice divided into quarters, comprising a non-magnetic body disposed on the outer periphery of the core and facing the center of the core, and, corresponding to the transition region in which the direction of the magnetic poles of the bonded magnet changes, located between the adjacent No. 1 dice; coils conferring magnetic flux on the four No. 1 dice.

Art Unit: 2832

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BERNARD ROJAS whose telephone number is (571)272-1998. The examiner can normally be reached on M and W-F, 10:00-7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Elvin G Enad/  
Supervisory Patent Examiner, Art Unit 2832

BR

/Bernard Rojas/  
Examiner, Art Unit 2832